

# Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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# **Product Information**



## CAY10566

Item No. 10012562

**CAS Registry No.:** 944808-88-2

Formal Name: 3-[4-(2-chloro-5-fluorophenoxy)-

1-piperidinyl]-6-(5-methyl-1,3,4-

oxadiazol-2-yl)-pyridazine

C<sub>18</sub>H<sub>17</sub>ClFN<sub>5</sub>O<sub>2</sub> MF:

FW: 389.8 **Purity:** ≥98%

Stability: ≥2 years at -20°C Supplied as: A crystalline solid

#### **Laboratory Procedures**

For long term storage, we suggest that CAY10566 be stored as supplied at -20°C. It should be stable for at least two

CAY10566 is supplied as a crystalline solid. A stock solution may be made by dissolving the CAY10566 in an organic solvent purged with an inert gas. CAY10566 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of CAY10566 in ethanol is approximately 0.15 mg/ml and approximately 10 mg/ml in DMSO and DMF.

CAY10566 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CAY10566 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. CAY10566 has a solubility of approximately 0.15 mg/ml in a 1:5 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Stearoyl-CoA desaturase (SCD) catalyzes the committed step of the conversion of saturated, long-chain fatty acids to monounsaturated fatty acids. The SCD1 gene is thought to play a key role in lipid homeostasis and body weight regulation. <sup>1-3</sup> Thus, modulating SCD1 activity pharmacologically may be a useful tool for regulating type 2 diabetes, dyslipidemia, and obesity. CAY10566 is a potent and selective inhibitor of SCD1 that demonstrates IC50 values of 4.5 and 26 nM in mouse and human enzymatic assays, respectively. This compound inhibits the conversion of saturated, long-chain fatty acyl-CoAs to monounsaturated, long-chain fatty acyl-CoAs in HepG2 cells with IC<sub>50</sub> values of 7.9 and 6.8 nM, respectively, when heptadecanoic acid and palmitic acid are used as the substrate.<sup>4</sup>

#### References

- 1. Cohen, P., Miyazaki, M., Socci, N.D., et al. Role for stearoyl-CoA desaturase-1 in leptin-mediated weight loss. Science 297, 240-243 (2002).
- 2. Dobrzyn, P., Sampath, H., Dobrzyn, A., et al. Loss of stearoyl-CoA desaturase 1 inhibits fatty acid oxidation and increases glucose utilization in the heart. Am. J. Physiol. Endocrinol. Metab. 294, E357-E364 (2008).
- Miyazaki, M., Flowers, M.T., Sampath, H., et al. Hepatic stearoyl-CoA desaturase-1 deficiency protects mice from carbohydrate-induced adiposity and hepatic steatosis. Cell Metabolism 6, 484-496 (2007).
- Liu, G., Lynch, J.K., Freeman, J., et al. Discovery of potent, selective, orally bioavailable stearoyl-CoA desaturase 1 inhibitors. J. Med. Chem. 50, 3086-3100 (2007).

WARNING: This product is for laboratory research only: not for administration to humans. Not for human or veterinary DIAGNOSTIC OR THERAPEUTIC USE.

## MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent under separate cover to the MSDS supervisor at your institution.

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at the time of edivers.

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